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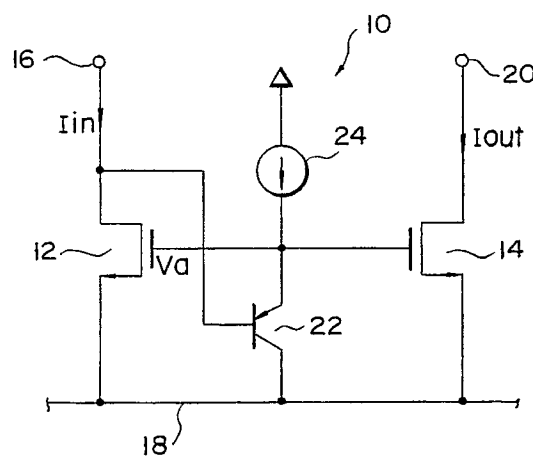
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(54) **Current-mirror circuit with buffering transistor.**

(57) A current-mirror (10) circuit includes a pair of NMOS transistors (12 and 14). The first NMOS transistor (12) has a gate electrode, a drain electrode serving as a current input terminal (16) of the current-mirror circuit (10) and a source electrode connected to a pre-selected potential. The second NMOS transistor (14) has a gate electrode connected to the gate electrode of the first NMOS transistor, a drain electrode serving as a current output terminal (20) of the current-mirror circuit (10) and a source electrode connected to the preselected potential. The current-mirror circuit is provided with a buffer circuit. The buffer circuit includes a bipolar transistor which is opposite in polarity to the paired NMOS transistors (12, 14), i.e., a PNP bipolar transistor (22). This transistor is associated with a constant current source (24).



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EUROPEAN SEARCH REPORT

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EP 90 31 2543

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	PATENT ABSTRACTS OF JAPAN vol. 11, no. 312 (E-548)(2759) 12 October 1987, & JP-A-62 104305 (TOSHIBA CORP) 14 May 1987, * the whole document *	1-6,7-16, 19,20	H 03 F 3/345 G 05 F 3/26

A	US-A-4 034 307 (O.H. SCHADE JR.) * column 1, line 66 - column 3, line 54; figure 1 *	1,17,18	

A	ELECTRONICS LETTERS. vol. 24, no. 21, October 1988, ENAGE GB pages 1331 - 1332; D.G. Nairn et al.: "High-Resolution, Current-mode A/D Convertors using Active Current Mirrors" * the whole document *	1-20	

A	PATENT ABSTRACTS OF JAPAN vol. 6, no. 16 (E-92)(894) 29 January 1982, & JP-A-56 137717 (NIPPON DENKI K.K.) 27 October 1981, * the whole document *	1-6	

			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 03 F G 05 F
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		13 June 91	TYBERGHIEN G.M.P.
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
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